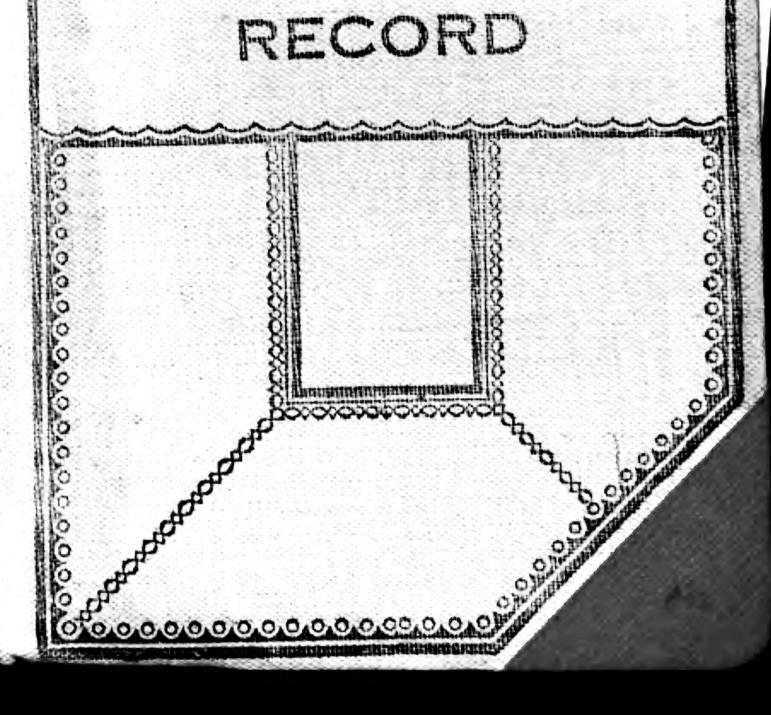


RECORD



Pala. 207

10. For land

Commence Produced

FR Forberg

Collection and Field Note Book

No. 67 (Feb. 15, 1963 - March 20, 1963)

(43404 ---- 43570)

California....... Specimens collected 6-7

8-115

Specimens collected 22-23 43406 - 434/2 30-31 43413-43420 34-35 43421-43429

> 42-43 43430 - 43439 48-49 43440-43449 68-69 43450-43457

> 72-73 43458-43468

96-101 43469- 43499 114-115 43500 - 43509

...... 116-174 Specimens collected 124-127 43570-43525

134-137 43526-43541

Plants 1961 & 1963 148-162

Hawaii..... 176-187 Specimens collected 180-181 43542-43546

(Maul)

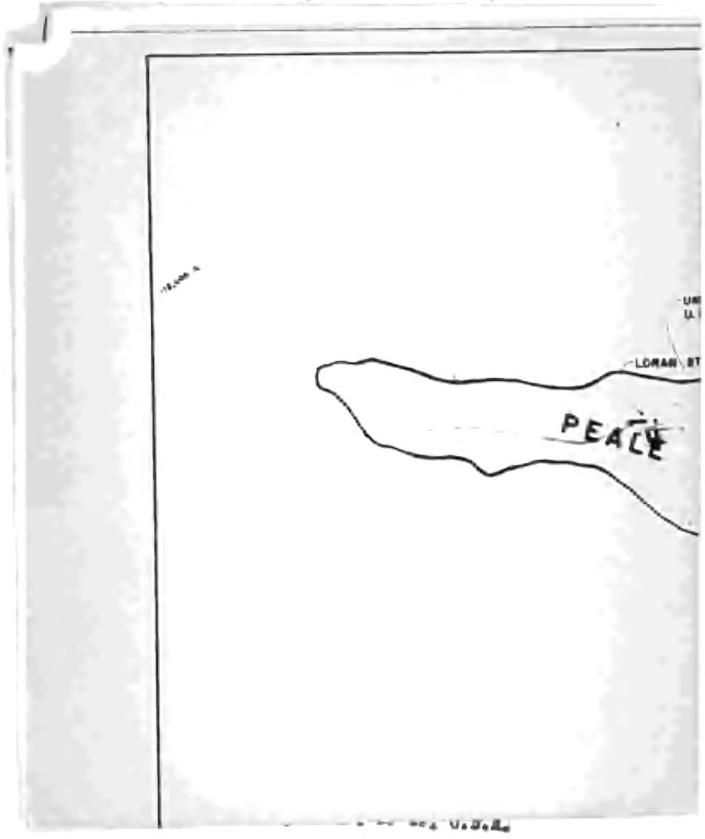
186-87 43547-43548 (Oshu)

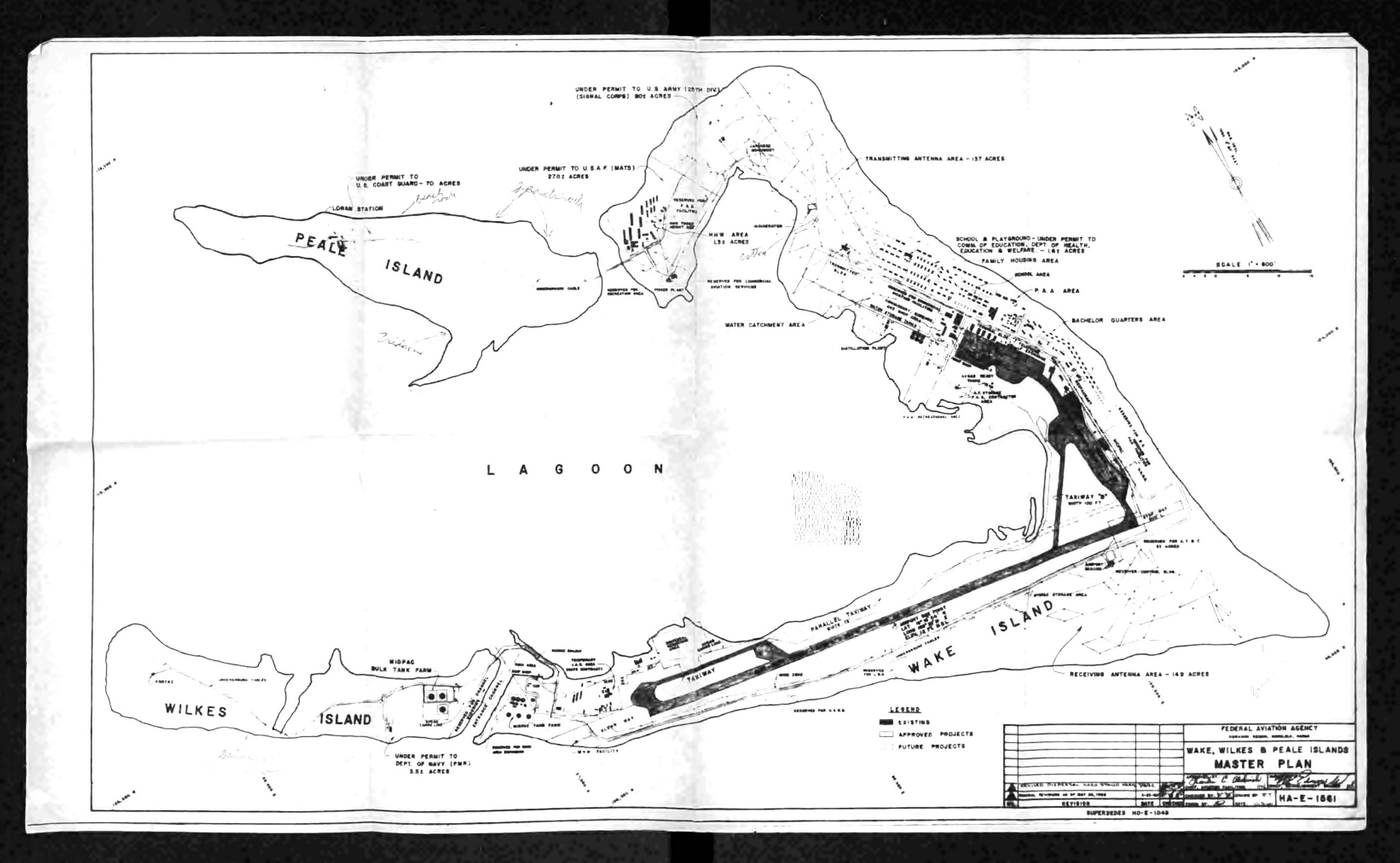
California..... 186-194 Specimens collected 186-191 43549-43570

Flight San Francisco to Washington. 194-195

2010.200

Field wite fronte field wite fronte want with # 47.404





0.229.207 (SIGNAL CORPS) DOS ACRES LMIDER PERMIT TO U.S.A.F. (MATS) 27.01 ACRES Rachiroly ISLAND

Field with books aut with # 43404

Books # 67

Lonicera Japanica

Localin 2 mi north of Turlock, Stanislaus Co.

Stand Spread but is a healthy plant in yard, has remarks

Remarks

Remarks

Tangled climber, sterile at this sensor

Poldy. 707 UNDER PERMIT TO U.S. ARMY IZET (SIGNAL CORPS) BOY ACRES ER PERMIT Y COAST GUAS ISL 00

Field note book
field note book
react with # 43404

Boils # 67



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Boldy 207

Field note book
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Pacific Vegetation Project coordinal Research Council 2101 Constitution Ave., N.W. Washington 20, B. C., U.S.A.

1903 California Feb. 15 - Trib by can - Hayward to Turboch -Hills bet. Hayward and busy are green. In Tracy area apricory achards in bull bloom Feb. 16 - return to Hayward area between Hughron and ceres but just south of early, is almost entirely a morais of orchards and mineyard, - with a few when fields - will some cottonwood, locust melia, Washingtones, olive, evergeens, and kucalyptus around houses. archards are mostly peach, praired to a very definite herget perhales 10 by, will transher convey downward at tips. graphy an eitherstaked uff and on weres or feruned back G erest trumbers. There ay some walnuts, either as orhands or now along the read, Out of Modesto on Paradise Road - debrands dominate until Sunland (?). Here is a sloughla the Tarolumne R. ?)

with large trees - hot. mostly Vopulus Chradendy very prominent. from here a mosaic of ofen land and orchards probably generally men

ohen land, till ort most Paradise - Khiloh nds I rem box scarcely any archards. On left stright & trees, much Rosatendan alternating with partine of cultivation.

Three low dark gran soil. Lan fragrum bollom lands. 7 oct. higher very fren large fields all cultivated , 10 Hogy 132 land is trues, trainage ditches

lendenery to be mously allette Hung 172 -3 mi. Do Kan fraguen R.

becoming And marshy to rever along nives or slough, with trees.

Lalis, Copulus, Juenens? It. Considerable Alchadendin marshy land mostly

pasture river is bitts
parture of miner is bitts
parture of enternation
all open. to Ry , 33. Rt.

and mestern frait.

thislate and for tele.

noticeable weeking balit!

Gran photos me wend of

sombellulane in with

immediately over

newword as Prenditures,

legeria productings,

these becoming abouted

clown the campin toward

Nicosa. arbutus.

Unbellularia

Esp in valley bottom

a boos Ricasia, when thes

shout reduced

near nice is reserved a slope, mostly grassy ha. a series of Long slump, and converse in a gratcher of comment.

In a wind navior is in a gratcher falis of routh some site of south some states.

Bacchones fil ilais is
scattered on stopes
Canyon below recase ites,
is definely useded with
Umbellication and local
slope shows very studing
groved wind-shear coplets)
Prelow this the walle y
bottom filled with faces above
a 9 m. till cathers just
coming out This and
lessealus are bare The accusing
in raw southers in the
underglicaning forms guerry
ungligenic

Trinly extensive soft marsh at head of Tomale. Bry bloke of more news Rilge above bay densely worded. Much building along was sore, out out rall marsh.

Point Reger - penumuce bet Probes Bay and recen mustby grassy a rashound, which have mill to by him.

COAL

ATION

_

Feb. 22 - arrived on gran at about 9.20 am. The airport of the riling green.

from Liver on a court of the minds of the minds of the stands.

Barriage da college of fram,

Ha with village set tout a comment as ever, but

The ob a prayer burnels.

The b- le som as more

fine waste waste and a comment of the stands.

Liver waste waste of the stands.

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and the aspect of the

Common component are pidens lewanthy, most conspicuo de lewanthy, most species, flowering abundantly toghim halepense, -very chloris place, calco common place, calco common place, calco remine indica permisetum setorum breally abundant Harmon tield Harmon tield Harmon tield Harmon tield conting coreung yound.

10

Pisonighteer man bestited have all small branches from trush and larger branch study on trush and larger branch study of the properties of

mostly showing in fract mostly showing theterfully leased out But in some fratches of yords are many then not a leaf left after typhon except palms & fantanin which were shredded.

increme green extent &

the above et to stant to

snapped off or tipped me.

Chaptedenden of bipinnatifidum Dorhleya spectabilis
Torhalea connemblyfors

kuldleja asiatien - magazane
below west gate of nagazane
along ditch. freis weny

tel 23. Trip againg. 1-ti-age innatar-trine your - my your at fata a Carnarian with

order of new branchest of other ford and side of danger of the danger of the day of the

Therferin and other beach, trees, wel. Pithece Clobrum defoliated, many Typed over Refoliation, not for advanced on Pithecellobing, out welf

advanced on theging.
On Cabras I stand Pluchen
to indica is abundant for
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or season of colonies de precisel.
Or season and forward is land
in proposed.

o Plushas indica

· Cappain and for

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o Called on for tar hours

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Friendrestulis commen in which

the several of allowing free several on along the several of the s

hacebarno sportanema one sterile clumbs on breakswrite, be your end of Calra will-the Places

Battered fruit on limeton near base of caling the species. The species of the spe

Papetioner is deminery, or many, clienter fronts lend, originally, after the set of the series of th

Benjard lessas tomation of ment of litheaction in more true. leafied out.

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more trees and town the the form of the standard of the same o

chantang is there on the stores of aga trive and transparen

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The et in let minelie - all box will a grant the man

fred along bear to Fill thin working

Scenary plantation of the constitution of the trees

feb. ru - about Harmon field some Orbinson nather battered and reforming, necessary, some scarcely affected notes on more obser-

common java more in common java more of and of

Budens leverather is Ditimily consum on wadness and own to Thace, at least as pa, with an left of

typed over, but mortey

alocasio maronhing -

her become very abundant all over north and west parting platear. terrain shows in the

beater down box shiller

taller seriet appears

" worm orlyal bench (plutters).

(tide young down and by

town in a hours of syma 1/1

much or lever gust back

Jane fred on the

of the there of heart

me and the friest weeness

Prisonia, Cyzaz. Fixus pring de

enough on the lower while the state of the sound of the water of mountained from beach probably must and in the wort mount are contemporare our mount on the water of many one contemporare our mount one contemporare our many one contemporare our many of least a meter in place.

along the beach to the evertual is a grost example of the 11 fort bench, both against the fort of the elify and especially around the bottom of a very lance mushimm noch. the works will size of a small room, furtrafte 5 m high. very dufty notched at the infort level. It appears I be a fragment that at some part time bell from the cliff. Though it the time it was observed it had met rained for at least 12 hours, white, we differ

from the log of the world Amad statactica had for raid and a heavy blue green a lysp definit where the water fell, who wing that the note store landpacinthe amount of water. This well on suggest that the lifest bouch could searchy have been a pleiste ce me phenomenon , we the noch in which this motely was out prole pravety has been in this position that long. the efort remarks, also, suggest they were probably not that old, as they would be putted much may sleeply thouse they are and rivula servery Traserve any aspect of a b fort surface.

1963 - quam Feb. 24 - Eampanaya Bay 43413 Spermacoce common along roadsedy in Lewcaling thicket. Momora triffera trils by L. common along roadride in Leucaena Wichet. 15 furtinaria Sarganum common in tide pools on "unm-algal" terraces +16 Stenotaphrum micranthum small patch on (Ween) Hall To 10 m. terrace edge of manning forest, in rough limestone. 17 Apriobalus very local on rough limestone guet above shray zone 18 rephorbig rare in pits on limestons terrace just above spray zone

20 m.

flowers dull rose-find, open at 10 a.m. closedat 12 mon

om.

10 m. prostrate, forming a

dense tufts, leaves glaucous beneath.

5 m. millry; glande greenish

co -m.

الدد و

Feb. 25. Lates Point, Forested cliff and terrace Cliff hada full Exprometral-this was opened up by typhoru. the cryend, very abundant here, was not defoliated though are stone, elsewhere they lost all their leaves. Momording and Physalis are abundant here now but were not the present The Pyronia here has renusually long styles. Intria is very densely leafed out. In the terrace many trees are still leafless probably mammeg.

80 m.

stems arcanding

twining tangled vine; flowers white with purple stamers and style.

160 00.

elongety amounded by a dense mass of fine worts, creeping on the trunks; blade leathery, or and green, flattened flowers white.

fronde thin, pendent.

large clumps, not forming very vegular rosettes

to 6.42

Data from an photos Ritidian Pound - Feb 15 1963 The overetation shows little or no evidence of distintionic on reason elly low oblique except for some possibly defoliated trees on the tertage below the wand on cliff solgs. This is not at all obvious. Beaching of strip to attent of point seems me clearly visibly in their ofligure Than in a vertical stay of same There restical about 1/500 25-37N 194 5'NE show much more evidence of defoliation but no real rights of extensive breakage or windle ou This strip i very clear. The enry her her war the getting of the stands

38 If 1969 granes of generally the whole mass is bent over somewhat, to as much as 45°. The tips of the branche. are leaflers the lower parts densely the most considerable with the grane parts

tende to be blown in one direction and men more transfer than mormally leafen but her is that

Pandanu forest -

963 gram Feb 20 y Rega Conservation Regerver. Large breadfrom (rame one a transcet is 1927 and of there in the neighborhood have lost all smalle, but not us for when my withingles and head but frint & second, range thing order transle Leaf ways there on more than a free in long from Vindamus broken down by her guest at on below the top of nort cong. agen mother bare. beginning to teal out Gela wie straw Cittle effect - has drugted green leave, bew broken Manche. Canyy has bein almost compretely destroyed and a three ground cever about intelled Carrier seedling regularly viserate with scattered other plants - saplings of agenia, should of Mayting Mestocally, Triphasia ingener, were such as Flagellaris. former widers (photor - fruit by o unless.)

henry bed sown, with many of the epiphytes on Carelas, was any

then reserved, as it gots then reserved, as it gots the the majority of their hast been survived west or siouth, of mest their method was large a treating man function.

1963 Guan 42 43430 Maytanus thompsonii (Men.) Foot corning in undergrowth 7 +31 mileania micrantha common, = +32 Dentella refrens First. F. common on bare hard red soil Feb. 27 - Kilidian Point at top of cliff, on limestone +33 melothia quamensis men. 3 +34 Capsicum futescens L. common ion edges of thicket -3: Wilsstroemia ellifitica occasional in cleared washed (seedlings common in forest) 36 Melothia quamensis occasional in frest same - on lower terrace 37 Ixora Triantha Volk. common in undergrowth in frest on limestons same in sand flat back 38 Portulaza commen 7cb.27 - northwest Field.

west side

19 Spathogeottis plicata Bl.

scrambling, sparsely branched shruly fruit reddish, and white. very prostrate, fes, white.

160 mm.

- fruit green, blacky. shrubs Imitall; flowers greenish white, fruit green. stimb 2 m. Call, with unpleasant odor when broken; sterile. vine, blowers white,

35 m. should 3 m tall, format braces pale at base, fruit green, as many as c-8 in a head.

300

prostrate fleshy, flowers yellow, wetale notched at tiles, stamens 10-14. Clowers closing at about 10:30 a.m. 60 mm.

eved, flowers magenta. occasional an open grassy walside (to # +8

February Kitchen Prog On alope is apull all largetrees are bout but the funderston, is fully green Fire on ramport is law, coming tack slowity. On plateau the caropying very thin - Pironia in laws from being enter by weeks. remove in facely leafy. intern very leafy when the how trees of Kenther, Meanary is well leafed out. There, mostly still be many other trees bary van tone reversion here but seem or good strape.

Preach below Ritidian out wasted white face of cliff, breaking the reaching the reaching the reaching the reaching the reach much debris in coronant grove, and the few faces the formation of the reaching the set of the ranking there, begins on the firem, begins on finding them, begins on the reaching them, begins on the reaching them as a see mounts.

in impletely defoliated manning impletely defoliated memorial described of the contract of the

Fund beautiful Campridely Alexander of Seal Campridely Priming and almost invitally Reafflers, Pandanus, O inional Monte Campring amount of the Berningtonia amount of the Campring and bally defoliated in about the English and in about the Campring of Mannagamia also when the A.

Same through a little with the stand of the

deformation of the standard of

Cleaning at the form from the sound stand of free of how for the sound the sound the sound the sound the stand the sound the stand of the sound the sound the stand of the sound the sound

amantes loral. a number of Casucing blown derem to wer, near tot at childy. Transtation up deficited exicht in runer fome landance blown ever locally all sithe win wited on to han in not one - only my the soon broken off above not numarus swiftlets overhangs, routh a trevalations shaft drilled on the lime at a just back of differ transected with a care or eracle in an andertake,

my cliff,

Feb., 3 agains for and a and a now whele of frainty lange the trees sportly along the swamp. The season of the swamp. They fell to east the colorium trees badles broken some uprooted.

Sant of land Kiver -Amall strips Myhraling leaver mistly settle broken off or of stell standing, illiment dead. Their own commend. Attil of Phriawiles, Wyla accritican and Rhighthon + Bruginer reparated from w. bank has the nyfra leaver broken and all the mangiore dead except a tiny clamp near to highway that still have some keares near the tites, one or two other trees still alow some signs of life. Then, of the dead tries are still standing, some bother off. Of still live trees of least one is Paraguian and one Riviplian aprilata. west bank of this channel in a trough of thisons tileacens

mostly bester down and half broken, the Entrum leny. legin well 3) about the dille, is a stuffichearly and grester, lined in druck lety with Parpalue ded richum, when slope with old commit trees, these or rounded nort maser 29 to 1 m. high trached with people Upparently These are the result of earlies typhon, but there has been some minnexer ation own I those wently The strip of dense Caspalum sod along the bottom of the storm beach is definitely to typhon as an racion ferracing and Tournegation buston that have tops lattered and are sprouting from bases they is some burial of bases of Lenneng at lop of storm beach by who perble, ant not very my infrient

Motes on weeds (etd)
Mikania microsthy
has begone widosheap
geen at y liga finajang
lago, remty file

Bidens lencantha has
reached at least of for as
region land a east county
Byling it is growing with
Bo helve be lencantha ison
mot abundant yet own this
side much south of your.
Where the two grow sell by side
then do not have a margine are
not the same, the Belevantha
bleng predominantly trafoliate
and finely and bluntly semulate,
the Bo piloso 5 foliate sharply
semulate, leaflith longe, more
pointed.

Helistropium ovatum var. depressum (but not very depressed) is a proneer on gravel either expressed or deposited by Typhon - is very abundant.

1963 gram

(from \$ 51)

The Levezera he a

show in expland. Probably

every fixed had whatevely

below, by 9, 1, 17 above

wate, him.

lagy front the feverage bank from the few lands of the formation from the formation from the few lands of th

trubi exect to fow excelled, bottered and trimmed Dade to large

Mig Brung - broad sand If Cot Washot beach -Attin lawyof sand has been thread everther. Marie last worthof inland afment 200 m l'art of this was wrend dr Leucaina send, which has been bent unland. Bure sand has a good stand Got stuckytaspheta in flower. Locally Chragmites must be coming up through a layer of rand probably from a buried layer of rhugomesculms very stender, loss, than peril to 2 m tall, they ferren

Casianing grows on sand flats black further beach - The sand overties one part has had more sand pilet on it - some their british on it - some their british on the sand has been some beent has been some beent has been semond (photos). Paletro feveren or most completely destroyed of from the sand has been personal (photos).

In the tallest Easuring forest a food of so of any serving a food of so of any serving a fine time of the article about a north of the article are it now some forms of a france of a france teaper of grain. I feel a forms of a france teaper of grain. I feel a forms of a france teaper of and socials. There is a feel to the forms of the article of the

Carrier war on the work

fluit have not systems

extensively express Trees

forms on sand have been blown

down form but sprouting

(photos)

1+ bicen sliveeur blown

down to almost proportion

down to almost proportion

but leng (photos).

Beyond Jones Breach un area of frield of actorage, Jernandia, Pendance.

limber of textrape, Herralis left, sprouding leaf of twigs a at undana, est the 'fernandia.

Cove beyong the just before has much bruker with out the must come from road repray (files to). a benetic creacent beach (plates) with curred beach with trace of 3 anguerand notiches on provide. On yours is open sout frest of Paringtones a months questionly Townesster, The prosing those tiliaceus, Cypas, don the almost still leaf-less it owned ntia, Eyear and Theoplerin and commo back pastent Street days of Callicage. some company, etc. still almost interest, and a little allogilyter , mornin removantiam. The amount of evastred delvis fieled in the finest shows

Ornamental & fruit trees.

Cresz misfera ter tuntes anafied mor tree warred, but a very small francentings very many have broken lever still! hungring vertically, althout more have any mits, even sonall once remaining, though new of lovercences or legioning to appear

dielmin segra -Amailee drancher are dead at tipo, new follarge appearing in abundance, shape is generally preserved. a few are upprovided a partially so

Samuel same Defotiated but new leafy twigs as coming out on all but the smallest brancher. Shape preserved very well be

Holiscus brightendo so completely recovered that il would be difficult to know that anything had happened.

Vertelia mondhe thous no appraisent efforts of typhron.

Cassia fristely On Tref seen the liebre n.

Plume in melig limborary depoleated but no the effect, eccept someties partly tipped over.

adena attrens parming One tree seen - diffortistes but recovering without apparent damage.

ictory grandin Irrall and medicing branches torn of f bout trumber secret days brown byes serving out abunhant my men leafor translatet.

Phyllanthus acides 17 - 10-12 pares of alternite wate gistrom leaflety) almost completely unaffected ty storm

Persea american smallest trongs dead only.

annoven - egun mamy apprarent effects on small tree. Les mille Caret de les selles selles

green but brome her

in the Kert mystems

of those tipped over are very shallow

manufers indices autiff,
many leaver in main branche.
Others with lead smaller franche.
Leaves on large.
Erythina vinigation maller franche.
Leaver, but putting out may
leave, not stripuly demaged.

woo leaves.

Roysland of left out

Terminalia cataloga all branches enotion off but now sprouting Morats are sul 5 1.5 m.

Pithrocellobium dulie many trees brolsen and reprovited, but sprouting vigarously.

Citrus-some tipped over

mura my see build of young fruits.

Man, 1 - along ent county mused forth andly - to ca Mus, I warry, For landanin. Och rote, ste. Padly battered, carry about of the tryet, many randa no Broken down, Nother at or below the to feef 110 - wol some. into suffer tan exert for elumper of men leafy trong on huntry and larger Grand Gre B. Manney - rather granul turns irrustly deternated of our thorny in see derver still my begin as you chiffy. Mounds cetapotic seems readily to story and eller. Cotronia in - very good strates-Creditation of here, many my to all all have a withe space capun of the you I romis with terve bally. enter; partiages by a green germenist anterpillar (collected) Clarenton and Juamin and partially defoliated but Ministry . Locally more fundames down

than standing - my hou mprobled Large Intria (photo) and small farming, as well as Ochresia, seem markly affected by Them. grewed is covered to replicately and some totalion reologicaling from fatches a tugte of pennington, petroum. One terminalia catappa and edge of wood server searchy affected, abundant at edges of fruit and in openings and her and Their gendrally a series of how privators of the frest (to about no. 3) in roll 3 . " tool front 6 on not (3.) arms and the land than been cleaned with q bulldozer heaving a standing they wrong badles het, de typhony mound the nother down. ord pointing south. LACTOR bown - end well 3, I hope) Sal Mare in their a bright -all printer

67

In quain worked Lamen byerfering allium of in stay - great Capricum fristerin Encuma tomatria Cetrullus frances lotata Chesa D the color volgan John sengujadali Lacture paties locasin lon . come ? frommen agreation is of the cargles things motors. at any Mhusa (fel haded) (cut my and worked with meet)

721963 guam Mar. 2 - Cotal Conservation in savanna on hills of red volcaria soil 43458 Thelypteris in small wooded raving 59 Timmines Timonius, edge of wooded ravin common 61 Timoning common 4 Timonius common 63 Timmins common 7 immin common 45 Timmins common 66 Melastoma avery common 2 +67 Glochidia marianum M.-a. 1 occasional +68 Preginetia mariannoneis Mers.

shoul 3 m. tall, fruit green. shoul, fruit green. should, fruit green. young plant 0,8 m. talo, stail shrub, sterile. safting, sterile. should, who fruit black. white, bacts subulate to marrively bout shaped. showly bout shaped. to Bandanus tres, fruit reddish when rife.

1963 grany Mar. 7 - Cortal Reserve no apparent amount entering enteringement of excess reals of typhon, any effection trould only be steered by careful measurement. much daming by during get for a dering and. melastoma has been conspicuously to letter distally but sprouting below. Leveral other struly- Genisslovna, Mytelly de carpermun ste, show some dead transtitet, but in general there is little effect of the storm formery The Carulany - on a ve broken brangles, but generally they show mo damage d'all. exicht perhaps some sparseness. Mat of meedler beneath, generally well notted, estimated in aproto. Melastom les white flower, subulat to montover boats - haped

bructs

I lante in navin facit patito - landamer textorne, · Cananga orderate Thelastome. decervola Lygo hur rearden. · Porterin ferragines · Schercety Hibison, Tilincen . Mounds cityotis - Tar Blakering Blechmum glochidin marianen * Denivationa · Fraycinetia v Helyfiterin · Mephylepin Phyllanthus Hafferd v Tripliana Lasuring Mystella Wilstremin Cycas Miseanthy onemna Vavallia Hypotic capatata

Man. 2 - wad my mining Hell from liti. afra area -Carnarina 10-15 m. Tale living this rd. show seriou defoliation - some trees do not seem to be putting puts any green barelike it all, some are a lettle green, other our seriously damaged. road to aboution & Tango, had most of these seem nearly or quite Lead. This seems generally true, but the effect. are very localized the rids by -ced wind very different nemounts of claimage.

Tops of Museonthus

Man. 3 - Tarmerana,
Preach - 1. Grant of the service of the servic

Tringen Bars north Endings all large Pittle collobium aproved form council reported or grantly toppled. Comment been mostly been a pers very short leaves mostly were short leaves hinging vertically were according to come mormal leafy trees before tripploom. There clay to cliff are still in grant back of beach are almost mormal.

Bet. Fafai and gryng & beach.

forest is remembered battered,
exp arteraspus trees landang
locally dorninant, underseges
except a few trees reprovited.

forest on the limestone bluffs i, a I carpen Pardance (1804) telesses Ochrosia, Hernandia, hemmy

a work the listraques is must havinged and the ochrosia least. Henandia has small branches nipped back ent shouting vigor well. damaged her this just nather protested. Large ofen flat book of beach here - possibly from sand examination. Iridens teresantha, Congra Canadensis very abundant, also laspalum. Thang alla frant billet in the arear with Griden; are generally high invistated. The lasquetum flats are lowand mont. Remains of Bidens ascleping ets apparently brilled My sall water. a low beach undal in front of ralt freuto Las Thornon per-capia, Finhistylis, Chronier, etc. and some very yours Dilines tome Verpalum ter areas of fear to servel rathe buttered.

Can historia, ternandia, and the heria, as well as incre end the dance. They are most battless sery much except that on landown in trohen of about horself one, the mandlest transfer, and lost of cliff feet and a large Barrier, toning, the species, a large Barrier, toning, the species, a training to the species, a training toning.

Lumerin did well

Palonin did well

Mongifier (Owner ent runing)

Royal fealow mortly went

Pithecellobium (owner takey)

champ palone went

Calophyllum anophyllum

V/m of trees uprairies

ac. Loude.

Grancaria occoled

Larger mes todly broken

(orenia buston mamillain facilità Ralanelor tuly for adiantum trafferent mo Dianthus caryetelis Letereasio perferie Cleonfelytum corresion; Epidendum (red + namy) Crossnote undulate Helicania (very startic, may may Dombeya spectabilis anthrium and com Costry Englishin trouvalli Duffentraction greats astrarque springer Caryota mites defracion, sugarious nephrolepis confet Piles Charge, the mirrof types!

Mar, of - Helisoften ting - 9.00 o.m.

Toust in so slope Barragada tel battered and clef-oliveted to the trees design have very how tree, drawns fateles of fact in this are, azon good somaple. Bright, green elver no my mendie. Toxil you Harmon Val. one in good solverte. But in chill in It is among detotiation & less in amanto VX. Commy plantation for how amounto and bardly batta-ex Forest in Thomas, at mostly end many broken theas less in central your spor line coon dun near beach, more intent velow bestigat med than generally Fortutales in Try news island life Jahren you, not much Cliff were tarming in always

bally damaged two down writing inter-Blugger's slephe in of rumit, Hill bally battered of

much barriero range in The one of Carrier line locally mugherrod, my Mangred swamper in rather Door whater at had of apria Harbon ferecalny soons combagin. winting south and west. ourming afera of Oute len. Les on well at til onrely live little davidaces tos Spragation on plateon Donen ant south careto is plant of the more Cantry i book names to refresh but it is cirmportely ineffectives. Potron love ane is fredery. Cycats on Base of drote & is a short all Levelaena.

where not often. light ? ? - , mp wer JE FRAM. Rayne (proti, m no " Coffee met in land strates. But very fra. many near, fort a come my sq. then tracting on offstrom lerro Inglier user with much sleggentlin er, on refiger ploth The on almayou and flemler langer trees you board. Enty almost none broken. Varine front a of Exmens The rive slower slower much obsertion and later Thank however the forther battand. mangaren would Timey o restricted. Plates of mi ficherophing Cours? - formether low much delvis inland al Casuarina dry at tillo (Photos). reformation many arms lined with low mangert.

Very lette notalle effect on assistal skilly, allered, of leave 1.5, Celly - not live, much defoliation on don't tile water in morney front one mos effected Browney in marry fret travail bounding Fut Kipisen frost store fittles for the start med Baners and form - may in my cos of south Telly Englierrun vican in flan Dar Down Rook of soil astrut. formed some of some ente vondant Houth tract of The Taloforn Feller Thank Lusy songer borner worm defortation, carriery whenever 220cz de 1200

Novem Inglier tille in shift a us on er Tili de va statu Platon for mill aline a. K. not show when were on account of the . Cuture - Mense to be The Lawmentering of the freaking cle Pallation. Mally and on Therefore more Bearagi um Kandasun og tel (Frideric Cervin, C.) Bretjer Tree from week grather Eggana Baurogada love Va caboling leng has around madeory Burs mans from Luce aproting sec. n bound foods Rosa willy less difficultation The some discussion. tree door for them p armali Santi Rreg. your butter troks hereby south. mor bouter

morthward all forintis anno man was forto of further from twinting Front go San Chip down terren. Inter trees see of fants + oza Aut less across tot towner Coccernate from the con-My lagarete - ver Lorden and pro-interes Revel le brailly sie fuller many trees down for truggers. 9 de Defolior tren Len The ten den tre That refronting it in mifras of loth Rose Indian Treas land sel mours sely arayou mostly formities south

wine anout 1. 20 1. but his it only a few or with combet & soull Plateau Good or Retidia VX - hels selle bletter, made, By Retedion remove no city down, Lestherand documen greener, oftens me mile of M.W. T. rilld . still Amella veg combed. Southwest of afternas Fred in much bett. straft argund Commence. tenter home defor o Brage molify; leagange to the a little the file greenst umber to post. fittle breath an south of the town 7 mongon 500

Exercagne Crabbasis.

Of the The State of the file of the state of the

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no dut rephotografil.

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but rephotograph

Wolean 33 frame
no date ones are all
mached HOG.

replot ograph, Laternal
Condo. asbury

96 1963 gram mar. 3 - ageina Heights 243469 Jasminum 2 70 Cassis glances smattener Buy E 3 71 fusticio: 1 +72 garcinia mangostana L. 2 74 Lenevid confersa Britt. 2 75 Cydista 2 76 Gaillandia 2 -77 Crescentia alata HSK. 1 +78 Parkinsonia aculeata L. 2 79 Cryptostegia grandifloro (Rox) R.S.

2 80 Clerodendrum bungei

3 . 81 malfighing coveraging L.

-81 quaincum officinals L. +82 Pittosporum Tobing (Thurs.) AH. Mayor. scrambling strub. shout 1.5 m. tall, with dragreeable oder when - hohen; flower yellow. loosely translied should some tall steril; (necovering from typhoon); - petioles purplo. creeping or scrambling hard, very orange to scarlet, - derk orange, wordy wine, with _ broken glowen lavenda, flower maron will orange mouths. tree; original ones trought to gram by tafferd; blower said to be very _ ill-scenter "cross tree" small tree; flowers - yellow. climber, floriver lavende saf milly. leaves maron-purple beneath, but white. small try; sterile. shrub; odn very vily and unpleasant when broken, shout in tall bly pinhish

98 19.3 man 43484 Jaaminum multiglown (85 Juniperus 3. 86 Lentang sellowing Link & Otto 2 87 fantang camara f. 2 88 Lantang camara f. 1 89 Lanseviena 2 90 Jasmenum 4 91 Thunbergia erecta 2 92 Joysia matrella mar. 3, - nimity Hill 93 Pinus luchnensis may man 3 - Pitti, mean site old agriculture Station site 94 Curgenia?

100 1965 Juan 47495 Taeniophyllun not glattered, green. on trunk of Creecenting tres in garden mar. 3 - gognga Beach, (Desr.) Hally Climbing in trees, 2 +96 Stictocardid tiliaefolia corolla phople, stamen anthers white, somewhat falcate but not at all colles; stigma capitate. Mar. 3 - Mason Black, Turner Bary depressed tufts, culing. 97 Vashalum setacoum common locally on bare coral raid March 4 - Orote Point suffrutereent trents +98 Desmanthus virgatus (1) W.W. white 1.5 - 2 m. tall; stamen. cleared limestone flats 99 Sportolus dense tufts, leaver trale, glaverus beneath verasional at edges of rough limestone cliffs

man 4 - Onte Count of the land on the sound on the sound on the see of the character of the bean of the character of the beand in me your with femining and in me your

Below cliff is our sent that he sent freet that he sent freet that is brown, probably married.

of franch stairs has

man 5 - trip to south end of usland - Head of apria House - the many we would alive out many as down.

Village as somety demaged.

there a number of Billions of Parkers of Par

Ravine forest in Cetti shows little evidence of typhoon

broken, porting in variou

direction l'atolier of ravino

frest looks rather devolates

We side of MI hebroods, grassy above, worded belowone tannial enosion seen well down on widge to west Eichbring in pool at month of wonter steam flowering strunts the Thechumps of Camboo are best down to westward.

feed Complies or storm bend.

Charles

Charles

Applies

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Class percogna

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Storm beach about the file of the Stormer of Perulation Thurner Stormer much for the second of Stormer Stormer manufactures the Stormer than the second the second

The beach modes back that the harden that the send from the send from the send from the send the send

The most of the comment of the formation of the contraction of the charmony is seen in land the charmony is seen in land

(ransest into feacvolo remb on cobble a boulde. moly - dearnorly -slopes who wind absenced - or outer sister of ourlas interested in and part I france in form or their grown charges muth occasional English cham, many teasent with the and the contractions is 3 on 1 tall there a lear said, toutiles large, lass thrown mai supphatia, a few realling the realling a Morinda, Hestrole, etc. home carrythan, morth, frager to get mis a more langual. in taller Many dead tranches the wind in a separating very matter and tonglid artand, may

Fer Carion recolling.

Castward on rections in the comment of the sound and selection and the selection and the selection and selection and selection and selection and selection and selection of the sound of the selection of the sound of the selection of the selectio

The beach ridy comes

as inward and these
in the feat with faptum

of bandors of Cascarias

and dead Moneta & down

from Nedrostis live flowering.

Tomphia garaally flowering.

a few Phirophing Leveral as a few Phirophing Leveral as a reliance to their contens, a dark reef herm fairly towns. In outer from the result I have from the a very frew amall a secure sporting interfer franches forms, targer transfer darks patelia of lex maline times of her house the secure on colly as as and is placed. Cfr w. places.

a number of Leveneng 3-5 m. tall mostly put flowering, funtions abundantly tabit

tree, are sum, fromling south, morning carriers wither apported on broken off 1-3, m. rep I fromling in various directions. Cocally 13 b 5 1ing
Cocally 13 b 5 1ing
Cocally 13 b 5 1ing
Commission of the standing.
Commission with much
famored, exist at tipe.

Colone layon beach

many Carun beach months in the stranger of the

They have almost beared most howeved down fout stall Siving - my flowing green. [-several 6, to plots) Earger they being stall standers but battered (plots) lend both notes affer a Sagron bearts) 110 Pagen Cagen beech

Sample 14 roch from seaward real platform.

The second secon

1963 guam 114

mar. 5 - Cocos Island 34500 ferraina

in forest in interior

01 Fercaena common in frest in unterior

02 January common in frest in interior

03 Sesuvium portulaeastrum forma common on reel platform at about extreme high tide level

+04 Hedystis albido - punctata (min.) Ideal at inner side of took.

mas. 5 - Merizo annex, on bas grownear water tank, decom-tof Glossofyne tennifolia Cans.

+00 Phyllanthus simplex Rety.

3 +07 Emilia somehifolia (1.) DP.

+08 Emilia javanica (Burm. F.) Rob.

+09 Heteropogos contortus (1.) Beaux.

the cm, tall, broken off by typhorn, completely dead. slander tree 5 m, tall, flowers white, fruit immature. tree 5 m. tall, blown over by typhom, immature fruits on sprouts from trule. prostrate, stems grey, leaves subglossy, somewhat compressed; flowers pinh. plant subfleshy, stems corolla white; fruit green.

90 m.

a rosette; plowers yellow.

corollas bright was pinte (this plant looks a bit like a hybrid but probably isnt. Corollar are slightly Ronger than usual, heads larger). brich red.

when mature.

116 '963 Waler

me court oppositions

White it was a second

andle, but ponent of

about the a road thin apparently nation of the strains of the strains and the strains and the strains about the strains about the strains about the strains are strains as a strain of the strain of the strains are strains as a strain of the strains are

Literation of a series

and among houses, or leveled contracted with the superiors of the superiors and superiors about the comment plants, about the comment plants, about the comment plants, and they then the second of the contracted of the contracted

and trampled free.

Trickains whether and ing places ambedded in read, it is they much compacted and ensured and ensured of flow-given algal erust.

ohe now the side of land, showing the sound of the strate of the smiddle of it 3's of above when at 1195 about 3's of selow marines, elevation on Thispen from the side of language the side of language the side of sound language the sound of the sou

Photos of layers on landons

fonall Promis scattered in open to love to love wereng locally

is mostly day,

proposed - mean totales, proposed of section of grany from a grand from a concentration of grany from a contration of grany from

grand old Julianen granden sitte fattanen Callar anthu. Enthaling Comeine

West end of (sel) albort ; a ones - 1 will a count of the contract of The has corner to re alkalic re I to very a tore - very mile distinction of the discount of the fred recetioned ener mulita I'm grant protester in to both and to fine most seedlings. (wholes) also occasioned. Portulaca oleraces any luten. On with side a lovered to m beach about the con the offer persone bridgen whell, Divers population of feptures repen, from a ciny compail from with white leaves and severe spring to a much more diffuse from with cong - judunculate spile. Also some

Standard frest or offens
acoult frest or offens
acoult fresh four of Cyperny
of Curry of Vile day
Patched Carpaian distribution
and a congression regularity

Cealo & - west of - 1of Septums repens is common in deel remo mos for from A. grapanicani and a replan van rept. beachnoch exterior in wider wedward, but a very rough dark upper layer, then it reveral lower smoother eight gray layers extending much faither landward, apparently rather recently expersed by high storm waves. Is hard to the Tops at or al. about drings tide mut leneled)

Mar. 7,1963 Walre Islet 1947 Walt 123 tample Peale Jasport 15 Tridacna shells from deposit on Peale Islet. at base of fligher Point. The Tribacon lange, 18". sumple lie on a larger 10" strick of 16 Tridaing shall with sand and gravel, which malerial in which it Sie ma hard megula panel bel with surface which is embedded, layer alove no. 15 stoper win from The dedurch bottom of the below #15, daying on Bedwell actually the give the workers in off an old very gently stopming 18 silty rand from between shells in layer of # 15 evolo ramp which runs along arross the sand the point the 19 bedrock under # 17 wort may well be of more resent frature, a no compacted dry surface or refler to the story. at base of Tlippes Point 21 exposed reef-rock in channel at base of Flipper Point 22 putty-like layer from base of Flype foint. 23 small clams from (*15)

124 1967 Walse 9.

· romman

Man 7 - Peale I slet, near bridge bridge repens was autobatus ind. common locally in depressions

May 7 Foto Peale Islet.

Joke Point

in cleaned area on const

send and gravel, begining

to be revegetated by Townsfortis

11 Albugs platensis

parasitie on Boerhavia repens

- +12 Lepturus gasparnicensis Foob.

common

Mar. 7 - Peale Islet mear Flepper Point.
3 +14 Pisonia grandia R. Br.

1 +13 Septure repens var. septentionalistorb.

man 6 - Wahre I slet,

near Terminal area.

1 +15 Elevine & indieg (1) Gaute.

trampled soil.

man 7 P. Wahre Islet

near inhaver Thorument

7 16 Gossypium

forming a love, open

met; spikes ascending.

erect shortered,

small bunches,
enly a seending to erect,
amall tufts.

whitiel, very fragrant.

low should plowers white with pive dark purple spots in center.

126 1967 Wals Island -475 17 amoranthus visides L. . rare in open ground Mar. 27 - sa Walre Islet, 18 Brechavis Sphanen garden site. stems and leaves light Thrub 3 m. Tall. +19 Cordin subcordala lam. 5 + 10 Enghalia glomeifera (miller) Wheeler breakly comma, sheltered wordy 12 erect plants flowers magenta 2 +21 Catharanthus roseus (1) 6. Don persisting levally Mar. 37 - Water Islet near paparese monument spreading much-branched great, mater fruits daily 5 +17 / Cendrais hounii (brownii) R. & S. rare on disturbed ground free ple. causes normally prostrate 5 73 (Luccining? Ival, parasitie on highering products stem to grow evert. man 8. Walso Islet, +24 Phyllanthus amores Schem. of Thomas very local, but abundant where found, around brilding bracks bright crimented. 26 Bougainviller planted around house

man 8 - Wilkes & Kulmilt a small ittil of ended beach with and a chest boulder field the boulder motehed and many an about 30 cm. from low today the right is conspicuously chewid by fish (cample). be cherred your igner funds well to the noteh land fish and others seem witing occasionally - but not very often Topy of Points, colonies are much britten It shood farte and in an inch or so of the living colonies the zone of cheving has a small Ecticapies - like grown alga, but the esterd, obil brigher.

Soft cirals of a number of brinds very common, specially near outs edge of ref. The reef flat has limited channels and to an deep between massesson and.

"coal not nample.

lind, many males with distances from the sitting in Fourney orting trees, 3 red. frontes books, frontes from young

Much fila on Willer along road.

In cleared area at end of wither is a vegetation of Portulaca lutea, depturus Alistropium, Lista, Lepustina. Brechavia, 12, a jew restless low your tester the services and 120 412 = 6. my - marine A CONTRACTOR OF THE PROPERTY O of each of the caperon And - a we town in the of any combina Tron of the othern. The Portulace and felister june reach of men somewhat more. The field " m. (nange fly, mi ned exister) Bath species of fehren. and present This land tray trees recently cleared of Tourseloutin (2-3 years ago ?) form plants except Ligidium found punder for referring

but not an serel mener.

is ofer when Tourneforting

Cral Eigent Coff. n. y. - yokohama Fireds - Wilkog (wither)

2 white tailed tropic find (wither)

3 red footed brobes, (wither)

sooty terms (large colony mulithe)

common moddies, (a number

on wells, Kulku Pt.)

Fragati Birds

fragati birds

red tailed tropic birds (within flying)

Red forted brobins about 11-12 prairs necture
in money ording tree,
yourness reading full age,
to any further wiself,
furtilly some eage,
fright but nect

mesting, eggs and orbinest gradien men of Miles settinger some and with prometer interior

Promotortie - 18 par restrond on languary siche
of yours, quit backers
vegetation & hours on or
with wings rome when I faction
out about plumage dands
rephish-worly hours in back.

Explorer over company

Explorer Description

Passiflora fortido
Casuarina aguistiplia
Carica frapayo
Cathrasanthrus rosens
Ricinus ornaminis
Terrinalia Cetappa
Ficus carica
Crimum asiaticum
Cyzzoloba vorfena
Letereasia frupanea
Rhoes spathacea
Ralandroe grinnata
Phyllostom o organine
Bongainvillea

Leucaena ferreorgilala Thesperia populares Cres maijos

Pond in angle of Runwap
Segetation of mlanging
mostly Sesuvium with
some Fimbristylis agenosa
and Leptum repen,
with scattered strubs
I Plucky oderate on
Slightly higher ground.
When slopes weedy esp.
with ragrestis amabilis
much I pornotes tuba
I finital duck
(Ploch turnstones 15.20
plovers

Emphritis timealli
Codiaeum variegatum
Pemphis acidula
fenerola taccada
Coros mucifers
Catharanthus rocers
Mumeria obtain

Cordyline frutiorea (in pots)

Cocos mucifera

134 1963 Water 9.

Man. 8 - west end of Willes. Islet, near Kulm Wornt.

147 5 20 sepidium and typavel flat

+475 20 feficien bidentythen month

5 27 Boerhavia refrenz L.

- Helistropium anomalum H. A. very common

5 +29 fida fallax theth. Walp.

5 30 Boenhavia

Brechavia (#43530)

5 +32 Portulaça lutea sol. abundant

5 +33 fepturus gaspanicensis Fost.

9 +34 Fimbristylis cymosa R. Br.

suffrutescent

prostrate stems up to im. long radiating from not cross; leaves brale beneath; flower pints. dwarf shrub, stemment, to seem tall flowers meter fregrant, could deeply loved, white, with tiny yellow eye. only one kind observed, though. many plants examined. strub im tall; flowers Mear orange, mored center, mostrate green stems radiating from not crown, leaves fole beneath; flower white changes habit of plant.

stems erect, very thick, green, brownish at bass, glowers yellow, stames 25-30.

bunder, tenens 25-30.

bunder, tenens and spiles arrending to evert.

1963 Walso). 136tryts, spiles according to spreading, on long pedurales. 39 feptemen repens var. septentionalis Fort. Mar. 2 - # 7aa Doch, in weedy ground around +>6 Congra canadensis (L? Gong. flower white. 7 Heliotropium praticum event; flowers white. commen polystachyum (L) Schult. almost past. 38 Pennisetum of setosum (Sw.) L. Rich. mar. 9 - Wake Islet, north 39 Estrapus's Sphacelaria
forming a dense felt or free on the reef flat which which which which male tefts. +40 heptimus repens van septentionalis Forb. on gravel flat back of beach mar. 5 - Peale Islet, site former Peale Lake dorspreading tuffs 4/1 Leftures repens var. septentrionalis Fosto. on distribed sund and gravel

mar. 8 - at a very low tide the evorin ramp and hast of is respect in front of the quarters area, not count of (Nahe). in extrered There is searchy a I distinction between the erring rampand the i recf feat except that the latter is covered by faire for, which may not be able is gring forthold on the slightly greater stope of the ramp. The is the lowest erosion ramp / have seen the whole area being almost at base level. across it are perpendicular channels about 5-10 cm wide and deep, parallel, running photo gut 40-50 -to the very flat. Intle neef flat part these also grand is are lived by James felt, clean inthe errain ramp. Mey vary from a bew wither Is a few feet apart. They were exactly comparable to the I arrests seen in other reefeof ferns, Kwajalein, Withit Tracog of thlonger), etc. but are small and have about out as deel as they can. Some how graved in them.

The beach is out back into a bighergravel bearly, leaving an abrupt rough The material of the beach selow is fire sand, that of the read is small pebble graved. as is the beach , bern bettend it. at short internals for a way along this there are makese of public material seemingly thrown drew on the stand beach, as though a what barrow trat been dumped there or rome one hard purched down to a section of the rough, but no section had collapsed. Were were a few feet to serend yands apart and extended prihades 2 m. or almost the width of the sand to find, alexander suggests cusp formation proteen, but this recons inadequate

now from the same from the men rearrigan

grand her

Man. 9 Kuku foint
Chotos of bite marker
on works between high
and low tides, also of
corbroach colony or
work surroundedly
water at & high tipe
(coll)
homo photos of area, and
also some of Prites with
bite marks, of soft coals, ex
(end of look, not) 4, beginning of 5)
(beginning of 6 x w. noll 5)

Louth shore Wilker Y. just west of causeway over west channel. Erosion ramp on old beachirch (photo) with small "solution probs (plata) surface of namy at about mid-tide is a mobiled brush (y hotos + sample) and interior of pools is the) dark gray. (photo, + rample includion free (Dues coment) of interior of friner frost. Thotos of hot holes. The main series of benchrock - pools 1 mottled ruface in west

seaward, alrany surface from next, which is much is much paler gray. Landward one is ray escally developed and not so case hardened (nample) (photo). This is mainly englamentic

Walre tolet - just east of old Sing Marie week-Very words series of beach well bed, at least 40 paces wide from inner edge to where beachrory seems te change almost unperceptably to reaf with. all is conglementi. The reef conglomerate (sample) is much enoded. The actual reely flat is very narrow here. tholor of beach rock, ney conglomerate, gravel over lying it, bigg boulder thrown up (single l'reter (?) chy) Townsforter struly billed ly stron washing over gravel.

142

may 9. Wale Wet, south Exposed platform of rembedded work, halo yran except for dale outin margin. The forms a tenace just above high tide. On this are several oceans beachnoth - old , anded. The whole may be Deach och + coar 1 confirmenate, bedding very observed & truncated. May be really platform. (photos, hos) Heliotropium dwang sent between Towneporting (finished hard nott 5).

Kulve Print - at high tide large paraot fiel, of several species move around in small school, several species together, leisurely nipping at coral, making the large marks seen on the rock.

In general the land surface of the island has been almost completely distribed In all probability no original origination remain, except possibly some fearering flats and Pemplis semb along the lagron margins. ! The fact that almost the entire indigenous and sportaneous flora of the island is of an extreme primeer character causes the secondary vegetation to looks rather natural and at least some of the original vegetation types to recur after disturbance. Of their a semb fruit of Townsforting of 1910 with a williant weattered and ordinand from in. is the most prevalent. to statute marie from I to about im, and having from closed to of ty. his has little dergrowth when closed first the branches are very lowand spreading and thought adjudgent tice are usually tangeled rightles, when it is from their is an aboundary herbacoon to sently growth of many species

Cudaina by the stand of Townsfortin redlings on the seemed area at two west and of feele selet in take man under some conditions receivablish itself immediately after distintance, without any intervening suctames. of When I offer not as around restallations may granibly to due to infinition. or greenfully a competition with such aggressen finen as who Continue and early Conclaim, Engrade and other breaks.

fambles - ctd. from \$ 123

24 sand slightly green from algae, sand flat at about 1-1.5 m. alt. base of Flipper Point, Peale I.

is beach well from north coast of water Islet west of terminal area.

or rech conglowerate from south coast of Walse I slot e. of much of farma man

18 south coast of Willes Velet vins of solution prools on evosion amp at mid-tide level.

30 abraded surpace of old beachnoch cuesta, same place, landward.

31 Willser I. samples of landward serie of beach with.

32 noch bitten by fish, Kultufrint. 33 old beach rock. Kultu Print

gu Peale I. north court
incipient beachrock
from landward of several
series of old case hardened beachrock.

35 from under a stone near Japanese monument. Wake blet

36 on plants

martly submerged at low tide, swimming easily when brushed into water. I raid to be common a north in edge of sea elsewhere on island. Kulsu Point, Willies Islet.

Pandamustectorius 1961 + 1967, much larger than in 1951.

Cenchrus brownii ore plant seen at Japanese monument 1963.

Cenchius echinatus generally distributed in Them disturbed areas

chlorisinglata still monon in disturbed areas 1961, 1963.

seen in a 99 wen 1961, one signable patch on Peale Islet 1963.

Fact fortenium argyption one of the commonent plants in disturbed areas, 1943.

sugitario cilianio not seen 1961, 1963.

Digitaria gandichandis not seen 1961, 1963.

Digitaris insularis Common around old Japanese garden site 1961, also

Eleusing indies common in disturbed places and persisting army former disturbance, 1963.

Eragnostir amabilis generally distributed and abundant in open places:

Eragiostis praevider not seen 1961, 1963.

Reptum gaspanicensis Collected in G15 area 1961, abundant generally on Willies & Peale Islets 1963, but rare on Wake.

Lepturus repens var. sept.

fefturus repens var. local on Pealle Islet near bridge

Paspalum anniculatum Collected at FAA Doch 1961, not seen 1963.

Parpalum distribum several patches or Pealo ?, 1963 Pennisetum polytachyun Frund sterle it 749 Dosli 1961, more abrundant, Jertile, A sam place 1963. Setaria verticillata not seen 1961, 1863.

forghum dochna var technium not seen 1961, 1963.

Jea mays not seen 1961, 1963.

garden site 1901, seen they again 1943, and several pattern on Peale J. 1863.

collected around old Japanes garden site 1761, not seen

Findristylis crymosa generally distributed, 1763.

Firmbristylis dichotomas Collected at 7aa Doch in 1961, not seen 1963.

Correct Coros mucifera a mande trees around

more than 3 mitals.

Californ of.

Dieffenbachia sp.

Phyllodendra ogysadium Leen in pot 1903

Phyllodordron undulatum (!) in pot 1963.

Phaphidophos aunes not seen 1961, 1963.

when my invested has has made and tedly disappeared me to the content of the many of the party o

Rhoeo afathacca

seems propulse

anot seen 1901 1915

Condyline fractions

Lancerman port 1 2

indlinen of

planted around buildings

Hymenocalles interestes

Executions squartifolis incomody planted around souldings, the have reached 5 m. tall 1965

There cancer and fruiting.

iens subgranza not seen, 1967, 1963

Coccoloba morifera Till present 1910 1911 1911 1911 realisated a fainty large tree Toreshaving repare Common generally, 1945, 1965 we also very aboundary. Bothevin specially, world, be spens but less common, 1965

Breakering of perently with mediate retween the Albert

Bougainvilles spectabilis,

Pinonia grandis All formed board (20) in 1903 mly scattered times.

Rocally in 1903.

maranthus gracyons

Branchen Tricola

arrananthus woulder to Chested 1907 Trong rand 1915 517 and 1915 17

Lornmon generally in low

relaces, referrably merce legran management of recommending of the recommendation of the

The later haden

Patulaca olivarea Alex in 1907 1903 secured around buildings and distribute area.

Portulace to samoine

13 rassica oberaces on italica

Joseph on 1941 1969 in 1963.

the late Peak whough the set from though the set of any colony and the set of anistense. I have been solony with the set of anistense. I hear he set the set of the set of beach set of Kulsus Point, to the Estet, 1961 1967.

Paphymus sations

femperoison tectorium

Kalanchoe fernata Torresting in 889 ingrand

Bunhania of.

the solution lever replaced of the Color back in same will established in same affect that were the solution of the color of the color

Photosen 1961. 1963

Property of red fla.) Does plant Story 901, not seen 1922,

Codiarum vanegatum. Planted around hours, 1968, apparently thriving.

Supherbia nathophera Vencommon is 1901 perhaps somewhat deas so and silled proposal in distincted place. (1)
Indiction plomaripum
in remore de cally abounded in 1123
I worker a most inversage talon.

inplosting total

Emphriting prechaming

Suphortin Lymifolian velected 1951, not seen 151

Padilanthus estimatoides
ellected in 365 compound

Elouysting is long at \$55 s

First Tribulus costorides Erllested Wilker Fold non channel 1961, not com, Thrugh, searched for 1963. The plants Received in the report

abundant in 1801, we seen the

The france to cally common

for in 1941 me a 19.

Leda fallar willen Islet 1961. 1963, recasional elsewhere.

Clarked around touring a sea, and apparently things in 1963 and presently their and apparently the interestions

Parciflon of

Carrifles fortida sa humata.

atablished at a 15 conformed.

1941, adving well 1923.

Still renesting would

Cuerones males 1747 seen 1961, 1963.

Even it of the over 1961,

Penphis acidula Still abundant 1961 1965, especially around layoun clina, pianted for ledges in housing was, 1963.

Tented on several places

malyputus situadas.

Several carte seen in pots

Drassain actinophylla seen m 1961, not in 1963.

Polyscias guilfoyles Leer planted mes a house, 1963. Anothern grandone.

africa petroselinia

The seen 1961, 1763.

Catharanthus rosens Lean in many places withouted and introducted,

Leen 1961, not 1963.

Plumening obtunes Coulding

pornous bratatas

Sparroes per caprae of brasiliano. Elill common 1761, 1863.

Yearnown Trebon
Jenerally aboundant
extens in the most resently
builtered areas, 1961, 1963.
Flowers per about drests,
close mid-marring.

Conding subsendated breathy Welf destributed breathy announce in social party of island. The species of Freet of the opposite and I women on Wals all destroyed 1967

Heliotropium angrally brelle, shrandant francisco perelle, danda temperatur sonthe coast near heavel bring me beevel. When he we have been been brenet. White corolla, with a terre of the plants sur her plants corolla, with a terre, syllow eye.

Helestropium valebalium van depression () Find collected 1961 mm 700 well, still common 1804 1903.

Towneroting argenter Generally abundant 1961, 1963, 1963, 1961, 1961, mot seen 1963.

Steelingtarphoto gamereminis Fright coellected of Faa Doch in 1961, much more abrundent in 1963. Viter Frifflig Friest Wellested - Teal Frest in 1961, Well established comy in 1969, blants several on tall.

Trot seen 1701, 1967

not seen 1761, 701

Mediana Tabacum Lean in 1841 not in 1845, Though possibly still removing

tolanum lyropersium in in garden is MKTS my

Crander wither an amutherni Lean in 1261 mt 2019.63.

franche taccada
form plants still remain
south of the main runaway
on Walso held. Leas in 1767 Fran
1951 because of bulldowing.
When some planted around
house in north side of iolit.

163

Picania nest, withou serthant ar admixture of Empling, was bounded that " most stable and murphythe overestation tope or the voland. the only good area of this remember in 1953 Telaster es (1) has been crapletely destroyed recently by overstalows my of the smilldown earning or to love greated. In a few meanly area duringer of gar and isonic and Evidle trees of many and if there could be left malistrated the President pered in characteristic of "cural aslando might reestablish itself ive a is my period of years. The seems that this will be permitted to trapper seems introbable between.

constant among the constant constant from the constant of print and and and and are present of the constant of

lines photom of the lagran above but the area is greatly reduced since 1953

There is a series of the serie

English willen the contract Vacque no a secucle of fide faller with, namally a strong admixture of defeture and when it was morniber of the flow telestropium moralin This was alluded to test not emplorarized - described to on Wake by Dryen in 1953 Columtoplinent 1931) and not noticed at all by Tooling - 1731 763 Cratery 1500 , Herwitzers toro and of this complex as more very mall were. antho deared area at Kulin trant on the west and of Willia Tolet, and is the opening in Tomosportice board nearby Lida or lide and the plant fillinging Soul with abundant Repture, Cortulara lestas, una

breekering where the busher and remarkly do not from a closed cores. The was doubtless grandet to cally in perings before the during which was don't prim to 1841 rest west of Penerch Pands track of the south want of Wale Islat, are prening and thin place in the Toursey entire seculo and sent fruit that was orangered try an open to closed dway sent of beliet opinion anomaly wer may simply have been alow Porns mused thereing earlier weeks. and many house developed so bleaved state 136 reconstituting from the 1902 topphoon. This man was not See Land visited in 1953. . Lesurium flats now

Leing still invest on and also made in many and also waster to want on a such as well in water to many and also waster to want to waster to waster

martically bry though on the many of the many leaves have recently faller from the Townsporter but not so many on to grove a long ashest The Esaver of index and Passers were predominantly still year. If see of the Passers were strong on to grove, much words

indence of a recent storm and least of sen bugh waves, ever seen on both will and with and in the from of lange area of yale gray to white. shiremarly recently ancovered beachirch. white stimed up gravel and dead sembs at the wife of to beach, and just bach of it. The autorice officer present said that the general of tright waves was an October,

il the one of Tellin wind offering to the sound in man the man the file LAGATE OF A TOTAL OF name to by Themany and must day of done tide " The landward and the in lived on a servicest in equitar but not rough and the many is the wind fry a grand and sand beach. The self platform in wheel it distriction many is a cont anderda, at word bright The last ceres the head of the ended, and to conf along the other stone of Els print, it remail - Level of the surhounding dry labort - 1-5 to 2 m object from hade level. Courtle mathe side of The Agree track of the rall set the Life of the environments in a wanted the beach of sand and shells lying on the water front of the rando at the Cot of These a small eleft, about yearn lingly is not not the rands. in tout diff inforces a layer about 50-40 cm. thick of attend closely packed Tridazna shells, overlain

fry on 15 20 cm. - Cargos -1 mg. shoul and and growned containing in from wholly The long to hand of the wildis completely covered by similar stells, here much cladrened at the stime tread of the inter once similar but much thicky trad of shells, - not as much blockered. This entends with some interrespten above at the opposite store of the point. and is at least to so this in todacci. We into the the wante on the south side of the inlet is unother similar Tract of Tredama shells In the material of the back are also reathered schools. nothing andles to the slephost of Tridorene was is land. The cover trailing of abill is much greater Then very angether with Every or Themselfy. These seen in the planner time who the clams we an important stem of fort and the shells accommended on the legron bottom in

strallow water, except that here the layer is at least y writer above lon tile level. Walse to make took alonginal intratortants, so frantas brown. The suggest ion that the stalls may have been from classes arten by the paparese soldiers during the water is made less briefy by the presence of the player of sout and gravel wheeling the Tridacon layer whom it is clearly in place. ne artifacts either of orberiginal or Vachanera culture were found, and no systematic mode of breakage of the shells as might letter be expected if they had been fried ofen However this speries of Tridagna is easily of ener by cutting the musch through the bole of the and of the lunge fine eve able not trained wrehesto quets it is very possible that agrificant arlifactor the indications may been been werlooked, I would be of great enterest to have the locality transmind by an archestogest

Trades your of poleliss of the state of the

or act of the leaves to have and a server of the sed.

mostly grans send as I man.
The top of help tabeled, of him
Krae, and Katrobinson.
Internior of granstrates a moneyous.
In the top of the day from
Internal the day from
Internal the day from
Internal the day from

alcaliala. I tel of refreeling hastate still in good shape, showing I'm planting just below entrance to track tran been isriously damaged. repealedly by a condition an in a calcanined about back Trees many from it sout tipped in one directory, about 4 completely want gallen. of These some, broken off at root come are completely died, other with will noted, as well green. not of alumalu, sould aloger to me making Open abandoned without covered by whene your Up ryender comme Parkakumotowniane nophwhop callete from Ephenemian, and -Chinese place testella 1 stry wyramin Cassis lise to north an Cypianic,

for ravious solger some manualisme on navious word solven williams legengers will a little Surrence words bottom of providernice

main 180 1963 Hawaii march 10 - Vas Valley 43542 Digitaria grunens 500 -. common in this semblynest March 10 - southeast of Kababruloa on contrat constal stuffer. mean terre Olas georges conal red. forming a small frest, evidently naturalized march 10 - 2/2 miles east of Kilei thick and springy. 44 Piztia straturtes covering the surface of water in waderd ditch. Much 11 - 2 m. n. e. sower Pain, Hookipa Park decumbent: flower purple. 45 Heliotropium anchusaefolium common in low Evastal bluffs 17. leaver fleshy blowers lavender, corolla limb 46 fyrium carolinianum locally common on terrais above high tide level, probably wet by shray patent; fruit searlet, fleshy. troat pringing and Wacher Valle, seem 4 to or of the fine and box detroubet. Ever stope of all ridge gravery with some driving and certat Marie. Instoper mest of white - two dead trees perhaps how to have bottom evoded been fort and sign of too development actioned some distance indicate bush of Kaunahahai, mangung grat ruft dear to feet along a coast of molding - was inquely fringe board for several mile with

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medaline of hours monthly and the tenton of soil monthly and the tenton of soil of the tenton of the tenton of soil of the tenton of the tenton of soil of the tenton of the tenton

plots and transects to be established, who to proint in the established, who to proint made searchally who and are rigular intervals.

Copulation dynamics of worther forwarin behavior of exotic

ftanislans to. California 88 Man. 19-10 miles west of modesto, on maker Rank oust of San Jonquin Riner. in shallow very altraling depression in practice. flower pueple, fruits 43554 Erodum conspicuously erect. abundant around edges of 55 Clantage nather bleshy locally abundant Intite to bline white 56 allocarya locally abundant corolla Tube white gales 57 Orthornique reddish lower life suffler occasional, more yellow. abundant in slightly higher you. combed stem have a 58 allown! rather disquoting order, oceanimal not quite like garle; flowers white flower world 39 Brodiaca capitata rensimal diels yellow. 61 Senecis runsimal in edges of 61 fefridium locally abundant flowers bright doop al my Ut Paeria yellow. abundant, forming masses of exten 49 (circh.)

March 19- Makes Land would west of moderte an alkaling defenession is wernal and in a grasting is marked, at this season. dy masses of barring that show not as solid took cliness. yellow inegular patcher The regulation of the pasture surrending the deferman is described by tradiness of but has aniderable your and various the specie the depression etself. do a morain of moretation with patcher of bure corl enmented with while albert Grania. Plantago alloranya, mel reproduces from pure a almost from patcher in well as mistures the plants edicted now into the observe speak. The webserver want in a now one that was collected by arrident mixed will the Caeria, fuelan immor Minares is moth of and unnidentely adjacent to the maper Rand got no 2 This orner must be at least 4- 5 acres, possibly me. I is greate anegulas and

in the Time available could not be thoroughly looked over - some solonous westward was violed and doubtless there as other reach areas. For Corner or over prespose someone should go down they and work it over I leisure - mefanally now white the plants an still in flower & week survey of the general area abould be award for prosibly this in much better seles then this The drea is generally grazed, but at amently most too bearity at least is the morning.

Land mean the Kerrer on both sides and to Tracy has fine black soil. Is doribtless drained tul marsh. couldn't be that this is more subject to alkalization by irrigation than sandy areas Could it bothat "black alkali" may Sou) is result of reaction with His by Malon and in there march roils & subsequent opidation?

a clearly dit is the work. The tremai south of Moon last princent is Transmindown more inference in to the mostly. None water to delle ing lake tout smaller. Me block in visible in the translatione, our whole its brigher realis of the terrals. esta those to the south have considerable snow int at middle to garly high so selfman to the very wit: to Nevada itto morelin remen, expecially within is ducka, hank some down always with back, every the small duringer of bulls, The becomes to less sastward, where aly the brighter wronger several de tables in eastern Nevanta and whole marken Wart - one of least bon envidendly water night now would be a insmall each - Course fing " 1 and by winner, and of 1 several black sports may be law than

Anow recome more abundant vastrand, but at hunter relativeles only. Mary more course ranges visible to mally, not many to will, full molly a rolling of That funding to, as my iestrabilinary arrangement of carryons tributary to the upper solvedo Rima II. is cut like a mary, into & sedementain selvole and all of the tenazous Sinally converge and the withet in through a various untal receive further or storator fund an little maker, him in the y writed

The country west of the minimum tooks generally or dull from I will your storms except mely when there is an engated field in the dust of the Americanisty of black of the comes may presided a black of the comes may presided in the comes may presided in



STATEMENT OF SUBSISTENCE, QUARTERS AND LAUNDRY SERVICE FEES DUE

DR. F. R. FOSBERG ORG: Commission Federal Aviation Agency Domestic Services Section, Wake Island

TOT

For meals and lodging furnished on the dates specified below:

March 6, 1963 March 7 thru 9, 1963: March 10, 1963 Dinner 3 days @ \$6.50 Brkfst \$ 2,00 19.50 1.00 \$22.50

ONE DAY'S CHARGES CONSISTS OF THE PLWG:
BRKFST \$1.00
LUNCH 1.25
DINNER 2.00 LODGING \$6.50

Make payment at Island Manager's Office, Second Floor, Terminal Building. Fayable in dash or by check to order of FEDERAL AVIATION AGENTY.

